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GROUP I
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND DECLASSIFICATION

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August 13, 1964

EX. 2212

This is the first monthly status report of the work performed on Project 36. It covers the period from the beginning of the contract until August 5, 1964.

Progress in the last period.

The program was started with a review of the plan of work and discussion with [REDACTED] Unresolved points in this discussion were: what importance should be placed on the requirement that the light modulation be directly proportional to the spatial frequency, what is the intent of this requirement, and what spatial frequency range should be considered? The answers to these questions could alter the technical decisions considerably.

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Declass Review
by NIMA/DOD

An [REDACTED] projection television receiver (model 741 PCS) has been salvaged and modified to provide an experimental tool. A photomultiplier pickup and feedback amplifier are being constructed.

Simultaneously, further investigation of a mechanically scanned system is being conducted. A new development in the field of electro-optic modulator cells has drastically reduced the power requirement for the modulator in such a system, but not all aspects of the new class of modulator cells are entirely satisfactory. For example, there is still a large variation in retardation as a function of wavelength in the visible spectrum.

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Projected work for the next period.

The projection television equipment will be used to evaluate: optimum spot size, photomultiplier pickup placement, feedback gain, frequency response compensation because of phosphor lag.

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Evaluation of the mechanical scheme and others will continue.

Status of fund expenditures.

Funds expended to July 31, 1964 - [REDACTED]

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The figure above is a preliminary estimate and does not represent a final accounting.

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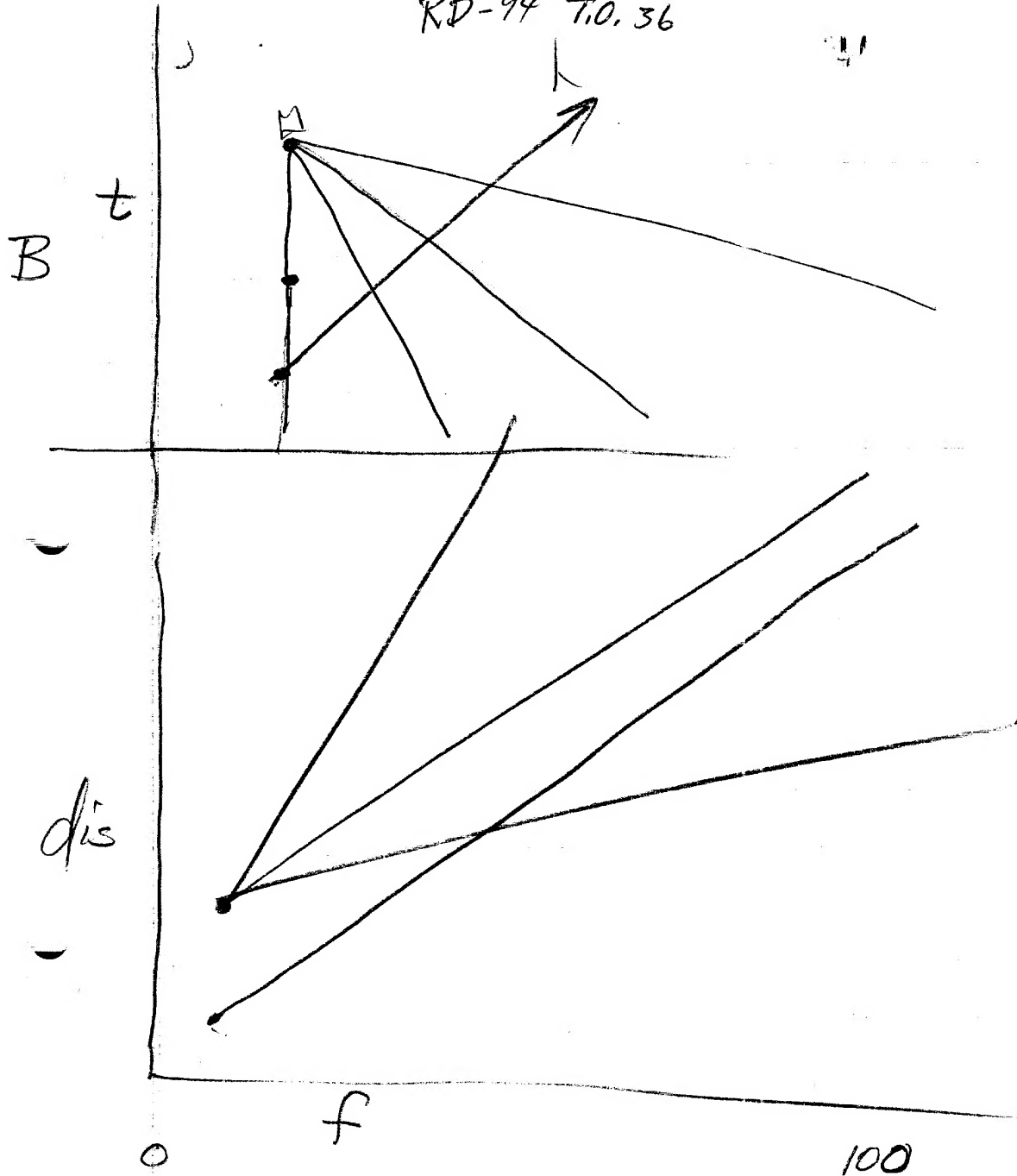
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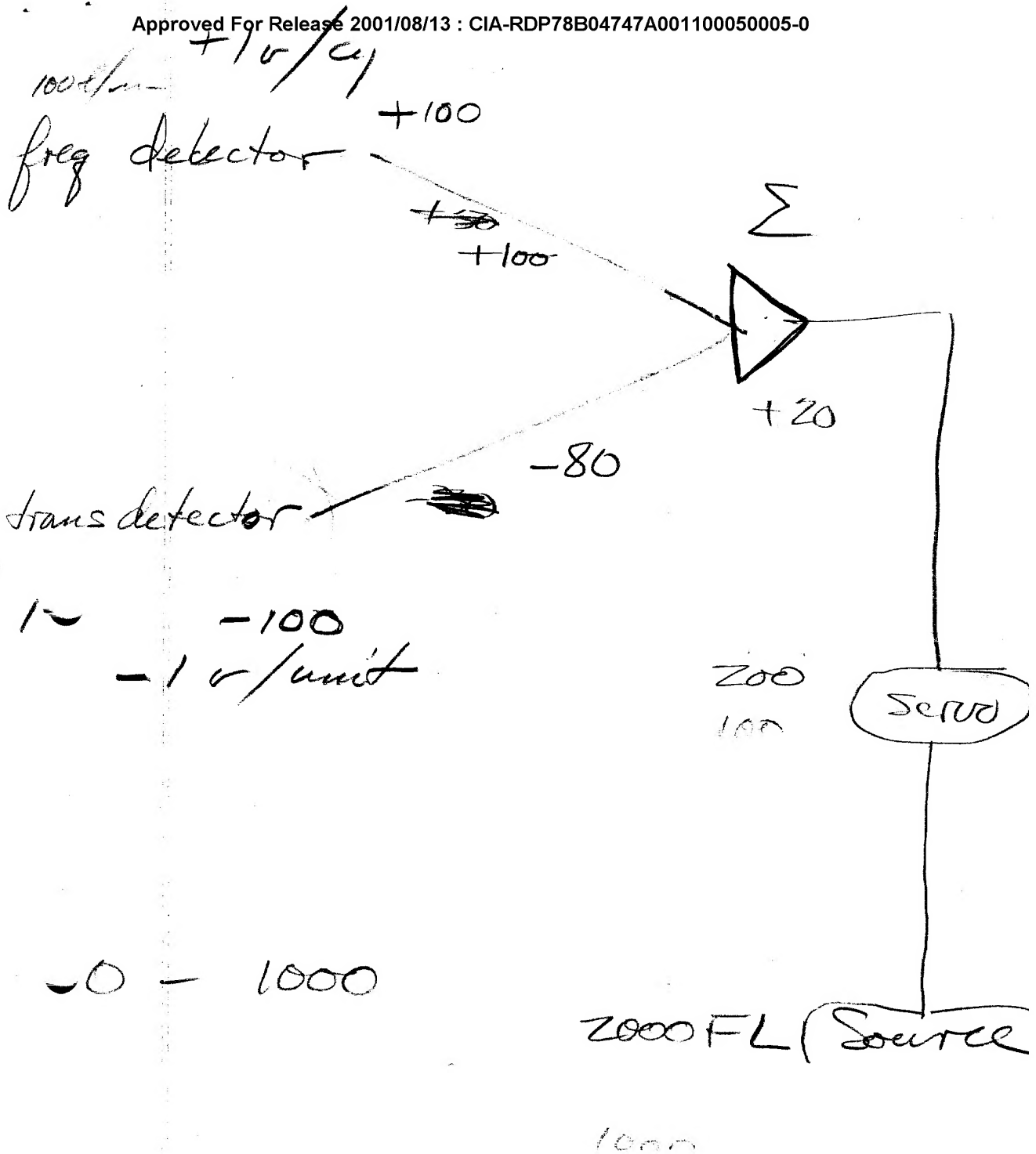
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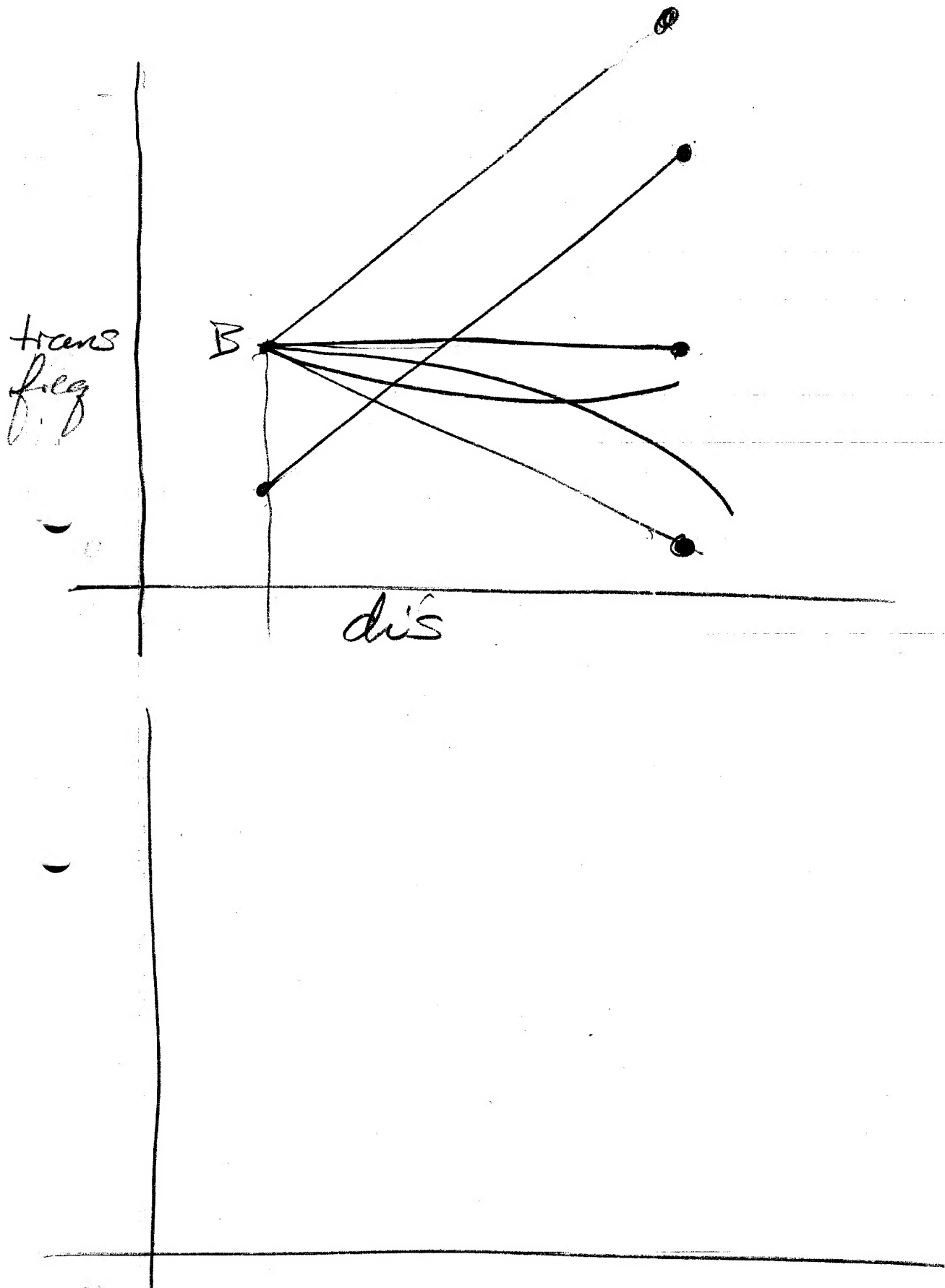
RD-94 T.O. 36

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